Abstract

A fuel injector (1) for the direct injection of fuel into the combustion chamber of an internal combustion engine includes a valve needle (4), which is situated in a nozzle body (3), is actuable by an actuator (7) and acted upon by a restoring spring (9) in such a manner that a valve closure member (5), which is in operative connection to the valve needle (4) and faces the combustion chamber, is kept in sealing contact on a valve seat surface (6) in the non-actuated state of the actuator (7). A surface of the fuel injector (1) has a concave design in a transition region (13) between the nozzle body (3) and the valve-closure member (5).

(Fig. 3)